

**Listing and Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

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1. (ORIGINAL) A method for copying a program having a scrambled program content component and an encrypted control component comprising:
- (a) receiving, in a recording apparatus, said program;
  - (b) attaching a data item to said encrypted control component, said data item indicating that said program has been copied;
  - (c) encrypting said encrypted control component and said data item to generate a nested control component; and
  - (d) recording said program content component and said nested control component.
2. (ORIGINAL) The method of Claim 1 wherein the steps of receiving, attaching and encrypting are performed in a smart card coupled to said recording apparatus.
3. (ORIGINAL) The method of Claim 2 wherein said encrypted control component comprises copy control information, a descrambling key associated with said scrambled program content component.
4. (ORIGINAL) The method of Claim 3 wherein said copy control information indicates one of never-copy state and copy-once state.

5. (ORIGINAL) The method of Claim 4 wherein said encrypted control component is encrypted using a global public key.

6. (ORIGINAL) The method of Claim 5 wherein said nested control component is encrypted using said global public key.

7. (ORIGINAL) The method of Claim 6 wherein said global public key is associated with said smart card, said smart card having a corresponding private key stored therein.

8. (ORIGINAL) The method of Claim 7 wherein said encrypted control component further comprises purchase information comprising channel identification data, event identity data, date and time stamp data, and billing data.

9. (ORIGINAL) The method of Claim 8 wherein said smart card comprises a card body with a plurality of terminals arranged on a surface of said card body in accordance with one of ISO 7816 and PCMCIA card standards.

10. (ORIGINAL) The method of Claim 9 wherein said recording apparatus is a digital video cassette recorder.

11. (CURRENTLY AMENDED) The method of Claim ~~[[10]]~~ 9 wherein said recording apparatus is a recordable DVD apparatus.

12. (ORIGINAL) A method for managing access to a copy of a restricted program, said method comprising;

(a) receiving said restricted program in a processing apparatus, said restricted program having a scrambled program content component and a nested control component, said nested control component being encrypted;

(b) decrypting said nested control component to obtain an encrypted control component and a data item, said data item indicating that said restricted program has been copied;

(c) decrypting said encrypted control component to obtain a descrambling key and copy control information;

(d) comparing said copy control information and said data item to determine if said copy is valid; and

(e) descrambling said program content component, using said descrambling key in response to a determination that said copy is valid.

13. (ORIGINAL) The method of Claim 12 wherein said encrypted control component and said nested control component are encrypted using a global public key.

14. (ORIGINAL) The method of Claim 13 wherein the steps of receiving, decrypting, comparing and descrambling are performed in a smart card coupled to said processing apparatus, said steps of decrypting employ a private key stored in said smart card and associated with said global public key.

15. (ORIGINAL) The method of Claim 14 wherein said encrypted control component further comprises purchase information comprising channel identification data, event identity data, date and time stamp data, and billing data.

16. (ORIGINAL) The method of Claim 15 wherein said purchase information comprises the cost of said program, said method further comprising:

(a) deducting the cost of said program from a cash reserve stored in said smart card to determine a calculated cash reserve;

(b) descrambling, in said smart card, said scrambled program content component using said descrambling key in response to having a positive calculated cash reserve; and


(c) passing said descrambled transmitted event to said video processing apparatus.

17. (ORIGINAL) The method of Claim 16 wherein said cash reserve is downloaded in an e-cash certificate message from an automatic teller machine.

18. (ORIGINAL) The method of Claim 17 wherein said processing apparatus is one of a digital video cassette recorder/player and a DVD recorder/player.

19. (ORIGINAL) The method of Claim 18 wherein said smart card comprises a card body with a plurality of terminals arranged on a surface of said card body in accordance with one of ISO 7816 and PCMCIA card standards.

20. (ORIGINAL) A method for managing access to a recorded copy of a restricted program using a smart card coupled to a video processing apparatus comprises:

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- (a) transferring, from a bank, a cash reserve to said smart card;
  - (b) receiving, in said smart card, said recorded copy of said restricted program from said video processing apparatus, said restricted program having a scrambled audio/video component and a nested control component, said nested control component being encrypted;
  - (c) decrypting said nested control component to obtain an encrypted control component and a data item, said data item indicating that said restricted program has been copied;
  - (d) decrypting said encrypted control component to obtain a descrambling key, copy control information and purchase information;
  - (e) comparing said copy control information and said data item to determine if said copy is valid;
  - (f) verifying that the cost of said restricted program is less than the stored cash reserve and deducting the cost of said restricted program from said stored cash reserve;
  - (g) descrambling said audio/video component, using said descrambling key.
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